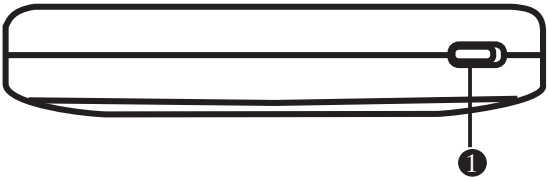
SANGEAN

User Manual

DT-110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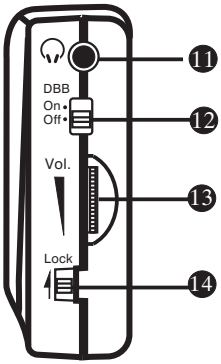
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DBB
On
Off
12
Vol.
13
Lock
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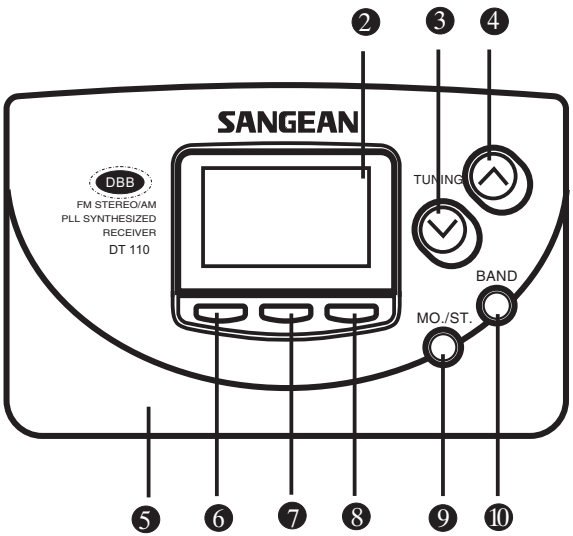
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SANGEAN
DBB
FM STEREO/AM
PLL SYNTHESIZED
RECEIVER
DT 110
TUNING
BAND
MO./ST.
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6
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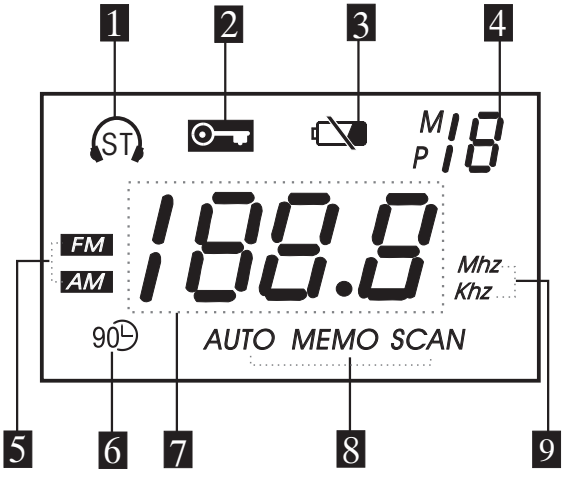
8
9
10

LOCATION OF CONTROLS

To insure proper operation, please familiarize yourself with these instructions before using your new receiver.

❶. On/Off button
❷. LCD display
❸. Tuning Control Down
❹. Tuning Control Up
❺. Battery Compartment
❻. Memory Button
❼. Memeory Recall button
❽. Priority Station Recall
❾. FM Stereo/Mono button
❿. Band selection button
⓫. Earphone Jack
⓬. DBB (Deep Bass Booster) On/Off
⓭. Volume Control
⓮. Lock Switch

DISPLAY ICONS



1. FM Stereo indicator
2. System lock
3. Low battery indicator
4. Memory Presets
5. Band Selected
6. 90 minutes auto shut off
7. Frequency
8. Auto Scan /Memory Scan status
9. Frequency unit

BATTERY INSTALLATION

The battery cover is located on the back of the unit. Slide the cover in the direction of the arrow to gain access to the battery compartment ❺. Insert 2 AAA (UM-4) batteries into the compartment. Make sure that the batteries are positioned in accordance with the diagram indicated. Replace cover.

Note:

(1) **During radio listening , radio will turn itself off when the battery power becomes too low. A low battery indicator will appear on the display for 1.5 seconds (you may not notice this) indicating weak batteries and replacement is necessary.**

(2) **During the low battery status, if you press the POWER button, Radio won't turn it on but appear with low battery indicator to remind the battery power is low and needed for battery replacement.**

(3) **During battery replacement, turn off the power and make sure the lock switch is in the locked position. This will prevent any memory presets from being lost during battery replacement.**

ANTENNA/EARPHONE USE

Inserting the earphone into the earphone jack ⓫. The cord connecting the earphone to the receiver acts as an antenna during FM reception and should be extended as much as possible to increase FM sensitivity.
A built-in Ferrite Bar Antenna is provided for AM reception and it is only necessary to rotate the radio for maximum signal strength during AM listening.

VOLUME CONTROL

Adjust volume control ⓭ to adjust the required listening volume.

TUNING THE RADIO

Band	Frequency	Antenna
AM	520-1710kHz	Internal/Rotate radio for best reception.
FM	87.50-108 MHz	External/Make sure the ear-

Phone is inserted into earphone jack.

A. APS (auto scan and auto preset)

This radio equips with APS device to have auto scan and auto preset function. Among the many conveniences offered by this feature it is especially useful for the traveler who can automatically find all the local stations in any strange city he may travel to with just the push of two buttons.

Turn on the radio by pressing On/Off button ❶, connect earphone to the earphone jack, select required band by pressing band selection button ❿, then press Tuning Control Up ❹ and Down ❸ button at the same time for more than 2 seconds until LCD display shows ***'AUTO SCAN'***.

The receiver will scan from the low frequency of the selected AM or FM band and auto memory the stations it can find until memory is full. i.e. 15 memory stations on FM band or 6 memory stations

on AM band. When APS completes , it will appear the first radio station it finds. To recall the stations , please refer to Memory Tuning (station recall) described later.

B. 90 minutes auto shut off device

For saving battery power , this radio is designed to auto shut off after 90 minutes operation, LCD display shows 90

For continuious listening if necessary, pressing ON/Off button ❶ for more than 2 seconds until LCD display 90 disappears

C. Scan tuning

Turn on the radio by pressing On/Off button ❶ , select AM or FM band by pressing Band Selected button ❿ , then press and hold the Tuning Control Up ❹ or Down ❸ for more than 1/2 second. The radio will scan all the frequencies in that band and will stop automatically when a radio station is found.

D. Manual Tuning

Turn on the radio by pressing On/Off button ❶, select AM or FM band by pressing Band Selected button ❿. Desired station may be selected by pressing the Tuning Control ❸ or ❹ intermittently until the desired station is reached. Or pressing and holding the Tuning Control until the desired station is reached.

E. Memory Tuning (station preset)

Turn on the radio by pressing On/Off button ❶ Select AM or FM band by pressing Band Selected button ❿. Tune to the desired station using the Manual or Scan Tuning methods as described prior. When the desired station is reached and indicated in the LCD display ❷ ,press the Memory Button ❻ . AM will flash in the LCD display and also a suggested number of memory position .During its flashing, select the

desired memory position by pressing Tuning Control ❸ or ❹ to the desired memory position, then press Memory button ❻ again. 'M' will stop flashing indicating station memory being done.

Note : No matter you press Memory Button ❻ or Memory Recall button ❼ , if the number digit is flashing which indicates the flashing number station has been memoried. It will replace previous memory station, if you press Memory Button at this time.

You may store a total of 15. stations in the FM band and 6 stations in the AM band plus 3 favorite stations as priority described later.

If the memory is full , when press the Memory button ❻ , LCD display will appear FUL. In this case, if you still like to memory the required station. Press the Memory button again, the radio will memory the station by force and replace M15

on FM band and M6 on AM band.

F. Priority

To store your favorite stations so that you may recall the stations in a more easy way.

When the desired stations are found by the tuning methods described above. Press the memory button ❻ , then Priority station button ❽. AP will flash in the LCD display and also a suggested number of memory position. During P is flashing, select the desired memory position by pressing Tuning Control ❸ or ❹ to the desired memory position, then press Memory button ❻ again. P will stop flashing indicating priority station memory being done.
The radio can allow maximum 3 favorite stations.

G. Memory Tuning (station recall)

Turn on the radio by pressing On/Off button ❶
Select AM or FM band by pressing band select-

ed button ⑩ then Memory Recall button ⑦
Select the required memory station by pressing Tuning Control ③ or ④, LCD display Mand memory digit will flash . When the required station is found, press Memory Recall button ⑦ again, LCD M and memory digit will stop flashing.

For priority stations recall, simply turn on the radio by pressing On/Off button ① then pressing Priority station button ⑧ . Select the required Priority station by pressing priority station button again.

If there is no memory station or priority station, while you press Memory Recall button or Priority button , LCD display will show ME (memory empty) or PE (priority station empty).

H. MEMORY Delete

If the memory is full or you like to delete the me-

mory stations .Recall the memory stations by pressing Memory Recall buttons ❼ . Press Memory button ❻ for more than 2 seconds untill LCD display DEL flashing, press Memory button ❻ again, the recall memory station is then deleted.

I. Memory Scan

To scan the memory stations, press Memory recall button for more than 2 seconds until LCD display ***MEMO SCAN*** appears, the radio will scan the memory stations up and stops for a few seconds for you to pick up the required memory stations. When the required memory station is found. Press Memory Recall button ❼ twice to stop Memory Scan.

J. Memory Exchange

For editing your memory stations, you may exchange the memory stations.

Example : To exchange Memory station 2 with Memory station 4.

Recall Memory station 2 by pressing Memory Recall button ❼ , press Memory button ❻ then Tuning Control UP ❸ button to the required Memory station 4, then press Memory button ❻ again Memory station 2 and Memory station 4 now is exchanged.

K. Mono button

The radio is designed to receive FM stereo broadcasts with earphone connected to the earphone jack ⓫ For weak FM station , press Mono button to get better reception.

L. Change AM band tuning step

For Northern American countries (Canada and USA) and some South American countries, AM

tuning step is 10 kHz. On other countries is 9 kHz.

To change AM band tuning step, please follow below steps.

1. change AM band tuning step from 9 kHz to 10kHz.
   Turn off the power by pressing On/Off button ❶ , press Tuning Control button Up ❹ continuously then turn on the power by pressing On/Off button again. Release the buttons the AM tuning step will now change to 10 kHz.
2. change AM band tuning step from 10 kHz to 9 kHz
   Turn off the power by pressing On/Off button ❶ , press Tuning Control button Down ❸ continuously and then turn on the power by pressing On/Off button again. Release the buttons, the AM tuning step will change to 9 kHz.

M. Lock Switch

To prevent accidential changing of any of the radio settings, move the Lock Switch ⓮ to up position, LCD display 🔑 icon will appear. To release, simply move the switch to its down position.

It is important to make sure Lock Switch is in its down position when radio is to be operated , as radio is completely inoperative until Lock Switch is released.

If the radio is not to be used for any extended period of time battery power savings may be realized by setting Lock Switch to On position 🔑 during storage.

SPECIFICATIONS

Type : FM stereo (via stereo earphones)
AM standard (mono)

Earphone Jack : 3.5 mm mini-plug
32 ohm impedance (stereo)

Output Power : 5 mW(10% THD) via earphone.

External Power : Earphone
AM 30 mA
FM 40 mA

Batteries : 3 Volts , AAA size (UM-4)X 2

Dimension (WXHXD) in mm : 95 x 60 x 20

Weight : 90g without batteries.

MAINTENANCE

1. Keep the radio dry. If it does get wet , wipe it immediately. Liquids may contain chemicals that can corrode electronic circuitry.

2. Use and store your radio only in normal temperature environments. High temperature can shorten the life of electronic devices, damage batteries and melt plastic parts.

3. Handle the radio gently and carefully. Dropping it can damage circuit boards and cases and render it defective.

4. Keep the radio away from dust and dirty.
5. Wipe the radio with a damp cloth to keep it looking new. Do not use harsh chemicals, solvents or strong detergents.

6. Use only fresh batteries of the recommended size and type. Always remove old or weak batteries as they can leak and destroy electronic components and circuitry.

7. Modifying or tampering with the radio intemal components can cause a malfunction and will void the product's warranty.